

TERESA JACOBS
BOARD OF COUNTY COMMISSIONERS
COUNTY MAYOR

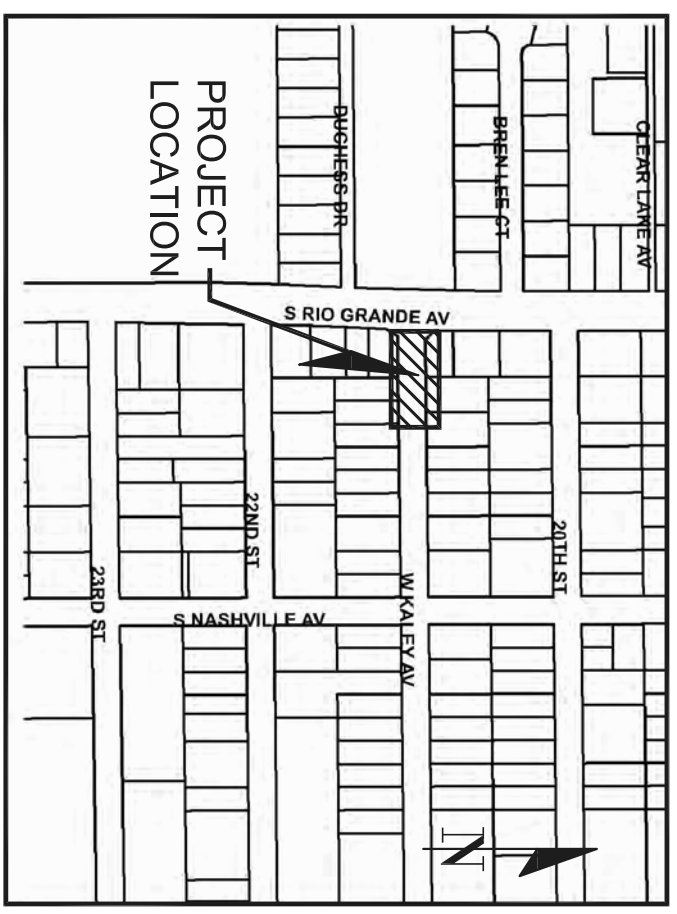
S. SCOTT BOYD DISTRICT 1
BRYAN NELSON DISTRICT 2
PETE CLARKE DISTRICT 3
JENNIFER THOMPSON DISTRICT 4
TED EDWARDS DISTRICT 5
VICTORIA P. SIFLIN DISTRICT 6
MARK V. MASSARO, P.E. PUBLIC WORKS DIRECTOR

SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS & QUANTITIES
4	TYPICAL SECTION & DETAILS
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15	SIGNING & PAVEMENT MARKINGS PLAN SHEET

LEGEND

EXIST. EDGE OF PAVT. PROPOSED PAVEMENT RIGHT OF WAY LINE SEWER STORM INLET SURVEY REFERENCE POINT POINT OF INTERSECTION BASE LINE CENTER LINE PROPERTY LINE DELTA ANGLE APPROXIMATE ROUND CURB CURB & GUTTER PVC PIPE FENCE GATE WATER METER VALVE WATER MAIN COMBINATION POLE POWER POLE GUY WIRE OVERHEAD ELECTRIC BURIED TELEPHONE CABLE TELEPHONE PEDESTAL BURIED TELEPHONE CABLE BENCHMARK SOIL BORING PALM TREE & SIZE SWALE FLOW LINE HEDGE EDGE OF WOODED AREA	CONCRETE RATE OF SUPERELEVATION TELEPHONE POLE OVERHEAD TELEPHONE POLE BURIED POWER CABLE TELEPHONE DUCT LIGHT POLE WATER LINE SANITARY SEWER FIRE HYDRANT UNDERGROUND CABLE TELEVISION OVERHEAD CABLE TELEVISION CONCRETE MONUMENT IRON ROD MANHOLE FARM FENCE, WOVEN WIRE BARBED WIRE FENCE CHAIN LINK FENCE WOOD FENCE TREE TYPE & SIZE O = OAK G = GUM C = CEDAR P = PINE CH = CHERRY M = MAPLE CONCRETE POWER POLE SURVEY BASELINE

**CONSTRUCTION PLANS FOR
W. KALEY AVENUE & S. RIO GRANDE AVENUE
INTERSECTION IMPROVEMENTS
ORANGE COUNTY CIP NO. 2722
DISTRICT NO. 6
ORANGE COUNTY, FLORIDA**



**VICINITY MAP
N.T.S. FINAL SUBMITTAL**

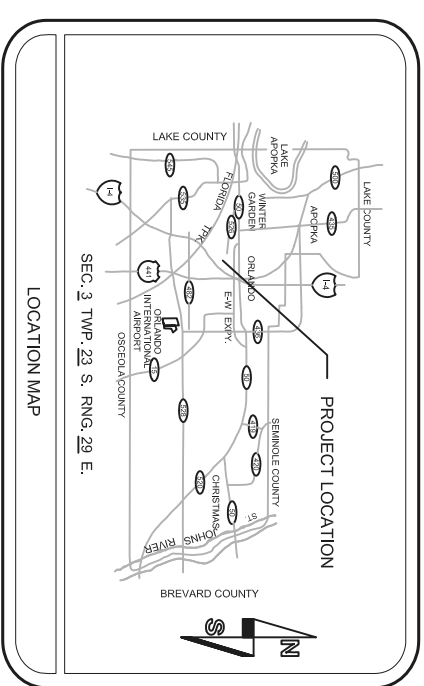
LENGTH OF PROJECT		
LINEAR FEET	MILES	
316.31	0.05991	

NOTE:
PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY CHANGE SINCE PLANS PREPARATION.

CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: _____ ENGINEER: _____ PE NO.: _____



COMPANY NAME	TELEPHONE NO.
ORANGE COUNTY UTILITIES (OCU) WASTE WATER	407-264-9706
ORANGE UTILITIES COMMISSION (OUC) WATER	407-434-2560
ORANGE UTILITIES COMMISSION (OUC) DISTRIBUTION	407-423-9100
ORANGE UTILITIES COMMISSION (OUC) TRANSMISSION	407-384-1181
BRIGHT HOUSE NETWORK	407-532-8509
AT&T TELEPHONE COMPANY	407-273-5084
TECO PEOPLE'S GAS	407-420-8878

ORANGE COUNTY BENCH MARKS USED
SITE BENCHMARK
A-1427-002 - RECOVERED 3.5" O.C. ALUMINUM DISC ON CONCRETE CURB INLET, 35' +/- E. OF C/L OF RIO GRANDE AVE. AND 80' +/- N. OF OF KALEY AVE.

GOVERNING STANDARDS AND STANDARD SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, DATED 2010 AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2010 AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS	DATE	BY

DESIGNED BY: JB, RL, SC DATE: MARCH, 2012
DRAWN BY: JDB DATE: _____
CHECKED BY: SC DATE: _____
APPROVED BY: LA DATE: _____

SHEET 1 OF 15

GENERAL NOTES


1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATION, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENT THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
2. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
3. ALL PERSONAL PROPERTY, EXCEPT MAIL BOXES, WITHIN THE RIGHT-OF-WAY NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. MAIL BOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH F.D.O.T. DESIGN STANDARD 532. PAYMENT WILL BE INCLUDED IN CLEARING AND GRUBBING.
4. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
5. ALL EXISTING TREES WITHIN THE RIGHT-OF-WAY ARE TO BE REMOVED AS CLEARING AND GRUBBING UNLESS OTHERWISE DIRECTED.
6. SEED AND MULCH ALL DISTURBED AREAS UNLESS OTHERWISE DIRECTED. SOD IN DISTURBED AREAS SHALL MATCH EXISTING TYPE SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. INSTALL A 4" MUCK BLANKET OR TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
8. SOD ALL SLOPES 3:1 OR STEEPER.
9. SAWCUT CONCRETE DRIVEWAYS AS REQUIRED FOR CONSTRUCTION.
10. ALL PAVEMENT OFFSETS SHOWN ARE TO PROPOSED CENTERLINE OF CONSTRUCTION. ALL RADIUS AND DIMENSIONS ARE TO PROPOSED EDGE OF PAVEMENT.
11. FOR STABILIZATION AT TURNOUTS AND DRIVEWAY CONNECTIONS SEE STANDARD INDEX No. 515 AND TYPICAL SECTIONS FOR DEPTH AND LBR.
12. DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY AS DIRECTED BY THE ENGINEER.
13. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 104- "PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION", EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
14. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.
15. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL CALL SUNSHINE ONE 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE PHONE NUMBER IS 1-800-432-4770.
16. UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.
17. THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.
18. ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED.
19. MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.
20. ALL MANHOLE COVERS SHALL INCLUDE THE ORANGE COUNTY LOGO AND BE IDENTIFIED AS "ORANGE COUNTY SANITARY", "ORANGE COUNTY STORM", OR "ORANGE COUNTY WATER", AS APPROPRIATE. (SEE DETAIL.)
21. ALL INLET/MANHOLE - PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, COVERED WITH AN ASPHALT MASTIC COATING, AND WRAPPED WITH A FILTER FABRIC MATERIAL, PER SECTION 13.03.03 OF THE ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS. ALL PIPE JOINTS IN THIS PROJECT SHALL BE WRAPPED PER FDOT STANDARD INDEX No. 280 OR AS DIRECTED BY THE ENGINEER COST TO BE INCLUDED IN THE COST OF THE PIPE CULVERT.
22. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS FOR GRATES MEETING HS-20 LOADING REQUIREMENTS.
23. ALL EXISTING DRAINAGE STRUCTURES AND PIPES IF ABANDONED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED, UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.
24. DESIGN CHANGES OF PIPE INVERTS NOT EXCEEDING PLUS OR MINUS ONE FOOT WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERTINENT PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES.

NOTE: 1- ALL MEASUREMENTS ARE IN ENGLISH UNLESS OTHERWISE SPECIFIED.

CAUTION:
 CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATING. MAPS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS OR SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE GAS FACILITIES IS BY AN ON-SITE INSPECTION BY T.E.C.O. GAS SYSTEMS THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE US AT 407-425-4661 TWO WORKING DAYS BEFORE DIGGING IN A CONSTRUCTION AREA.

25. ALL (P.R.M.'S) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
26. ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION 407-836-7940 AND BOTH SHALL NOTIFY:
 STATE GEODETIC ADVISOR
 3900 COMMONWEALTH BOULEVARD, SUITE 309,
 TALLAHASSEE, FL
 850-245-2808
27. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE 407-836-7940. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
28. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DIVISION A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
29. WITHIN 21 CALENDAR DAYS AFTER NOTICE TO PROCEED, THE CONTRACTOR SHALL STAKE THE RIGHT-OF-WAY AT 100' INTERVALS AND AT RIGHT-OF-WAY BREAKS WITH STATIONING SHOWN ON THE STAKES. NO INVOICE FOR PAYMENT WILL BE PROCESSED UNTIL THE RIGHT-OF-WAY HAS BEEN STAKED TO THE SATISFACTION OF THE ENGINEER. PAYMENT IS INCLUDED IN THE PRICE BID FOR ITEM NO. 101-1 "MOBILIZATION" (LS).
30. TO MEET ADA REQUIREMENTS, ALL CURB RAMPS AND SIDEWALK CONSTRUCTION SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND MOST CURRENT ADA STANDARDS AND PROWAG.
31. FOR PEDESTRIAN CURB CUT RAMPS DETAILS, REFER TO FDOT STANDARD INDEX 304 NOMENCLATURE SHOW IN THE PLANS REFERS TO THE RAMP TYPES IDENTIFIED IN INDEX 304.
32. THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNS AS REQUIRED DURING CONSTRUCTION. SIGNS WHICH ARE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY. THE CONTRACTOR SHALL REMOVE AND STORE EXISTING TRAFFIC SIGNS THAT ARE NOT USED DURING CONSTRUCTION. THE CONTRACTOR SHALL RE-INSTALL THE STORED SIGNS AS SHOWN ON THE SIGNING PLANS OR AS DIRECTED BY THE ENGINEER. SIGNS NO TO BE RE-INSTALLED SHALL BE DELIVERED TO ORANGE COUNTY'S TRAFFIC SIGN SHOP. DAMAGE SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO ORANGE COUNTY. COST OF RELOCATION, MAINTENANCE, REMOVAL AND LEFTOVER SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
33. ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO CHAPTER 553, F.S., PART III ALSO KNOWN AS THE "TRENCH SAFETY ACT", TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.
34. CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTED CONSTRUCTION.
35. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING PAVEMENT ELEVATIONS OF ALL DRIVEWAYS AND SIDEWALKS TO MATCH THE PROPOSED PAVEMENT TO THE EXISTING.
36. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING, COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
37. REMOVAL OF EXISTING CONCRETE AND TREES TO BE INCLUDED IN CLEARING AND GRUBBING PAY ITEM NO. 110-1-1
38. EXISTING THERMOPLASTIC STRIPES SHALL BE REMOVED BY HYDRO BLASTING OR ANY OTHER METHOD RECOMMENDED BY ENGINEER.
39. NO LANE CLOSURES WILL BE ALLOWED 6AM/8:30AM AND/4PM/7PM.

REVISIONS			
DATE	BY	DESCRIPTION	DATE

 <p style="margin: 0;">ORANGE COUNTY PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839-9205 (407) 836-7908</p>	<p style="margin: 0;">DESIGN PLANS FOR:</p> <p style="margin: 0;">KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS</p> <p style="margin: 0;">PROJECT NO. CIP-2722</p>
<p style="margin: 0;">GENERAL NOTES</p>	<p style="margin: 0;">SHEET NO. 2</p>

SUMMARY OF PAY ITEMS

REF. NO.	ITEM	DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	102-1	MAINTENANCE OF TRAFFIC	LS	1
3	104-14	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
4	110-1-1	CLEARING AND GRUBBING	LS	1
5	120-9	EXCAVATION, EMBANKMENT AND GRADING	LS	1
6	160-4	STABILIZATION TYPE B, 12" (MIN. LBR 40)	SY	440
7	270-12	SOIL CEMENT BASE (12") (300 PSI)	SY	360
8	327-70-1	MILLING EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)	SY	1,040
9	334-1-13	SUPERPAVE ASPHALTIC CONCRETE (SP-12.5)(TRAFFIC TYPE "C")(1.5")	SY	360
10	337-7-33	ASPHALT CONCRETE FRICTION COURSE, (TRAFFIC "C")(FC-12.5)(1.5")	SY	1,400
11	425-1-311	INLET CURB TYPE (P-1)(<10)(J BOTTOM)	EA	1
12	425-1-321	INLET CURB TYPE (P-2)(<10)(J BOTTOM)	EA	1
13	425-1-329	INLET CURB TYPE (P-2)(MODIFY)	EA	1
14	430-175-118	PIPE CULVERT, SRCP CLASS III, ROUND (18")	LF	5
15	520-1-10	CONCRETE CURB & GUTTER, TYPE "F"	LF	723
16	522-1	SIDEWALK CONCRETE, (4" THICK)	SY	329
17	522-2	SIDEWALK CONCRETE, (6" THICK)	SY	186
18	570-1-2	PERFORMANCE TURF, SOD (BAHIA OR MATCH EXISTING)	SY	189
19	700-20-40	SIGN, SINGLE POST (RELOCATE)	EA	1
20	706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	60
21	711-1-1-11	THERMOPLASTIC (WHITE) (SOLID 6")	LF	852
22	711-1-1-123	THERMOPLASTIC (WHITE) (SOLID 12")	LF	160
23	711-1-1-125	THERMOPLASTIC (WHITE) (SOLID 24")	LF	33
24	711-1-1-160	THERMOPLASTIC (WHITE) (MESSAGE)	EA	1
25	711-1-1-170	THERMOPLASTIC (WHITE) (ARROWS)	EA	2
26	711-1-1-211	THERMOPLASTIC (YELLOW) (SOLID 6")	LF	1130
27	711-1-1-224	THERMOPLASTIC (YELLOW) (SOLID 18")	LF	139
28	900-1	AS-BUILT PLANS	LS	1
29	900-2	INDEMNIFICATION	LS	1

NOTE:

PAY ITEM 110-1-1 SHALL INCLUDE REMOVAL OF THERMOPLASTIC STRIPES, REMOVAL OF TREES, REMOVAL, RELOCATION AND REPLACEMENT OF MAILBOXES AND FENCES, REMOVAL OF EXISTING CONCRETE, DRAINAGE STRUCTURES, PIPES, AND PAVEMENT MARKINGS.
 PAY ITEM 430-175- SHALL INCLUDE THE COST OF COLLARS.

SUMMARY OF CURB

STA.	END	DESCRIPTION	LF	REMARKS
10+27.72	13+70.00	CONCRETE CURB, TYPE "F"	362.50	
10+32.63	13+70.00	CONCRETE CURB, TYPE "F"	360.50	
TOTAL			723	

SUMMARY OF SODDING

STA.	END	S. Q. YDS.	REMARKS
10+30.15	13+65.30	77.62	TO MATCH EXISTING
10+34.68	13+16.36	111.86	TO MATCH EXISTING
TOTAL		189	

SUMMARY OF SIDEWALK 6"

STA.	END	DESCRIPTION	SQ. YDS.	REMARKS
11+13.79	RT	CONCRETE DRIVEWAY	18.81	
11+55.29	RT	CONCRETE DRIVEWAY	18.16	
11+92.00	LT	CONCRETE DRIVEWAY	20.17	
12+13.62	RT	CONCRETE DRIVEWAY	18.63	
12+41.30	LT	CONCRETE DRIVEWAY	20.99	
12+69.19	RT	CONCRETE DRIVEWAY	18.65	
13+38.88	LT	CONCRETE DRIVEWAY	25.30	
13+38.89	RT	CONCRETE DRIVEWAY	48.38	
13+52.10	RT	CONCRETE DOUBLE DRIVEWAY		
TOTAL			186	

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	STA.	DESCRIPTION	BARREL SIZE (INCHES)	LENGTH (FT)	STORM DRAIN CLASS III RCP	STORM DRAIN CLASS III RCP	INLET TYPE	INLET MODIFY	REMARKS
A-100	12+75.58	INLET TYPE (P-2)(<10)(J BOTTOM)	15", 18"		15"	18"	1		CONNECTS TO TWO EXISTING PIPES
A-101	13+14.20	COLLAR, 18" PIPE RCP CLASS III	18"	5			1		CONNECTS TO EXISTING PIPE
A-102	13+14.15	INLET TYPE (P-2)(<10)(J BOTTOM)	18"				1		
A-103	13+14.15	INLET MODIFY	18"				1	1	MODIFY EXISTING INLET
TOTAL							1	1	

DATE	BY	DESCRIPTION



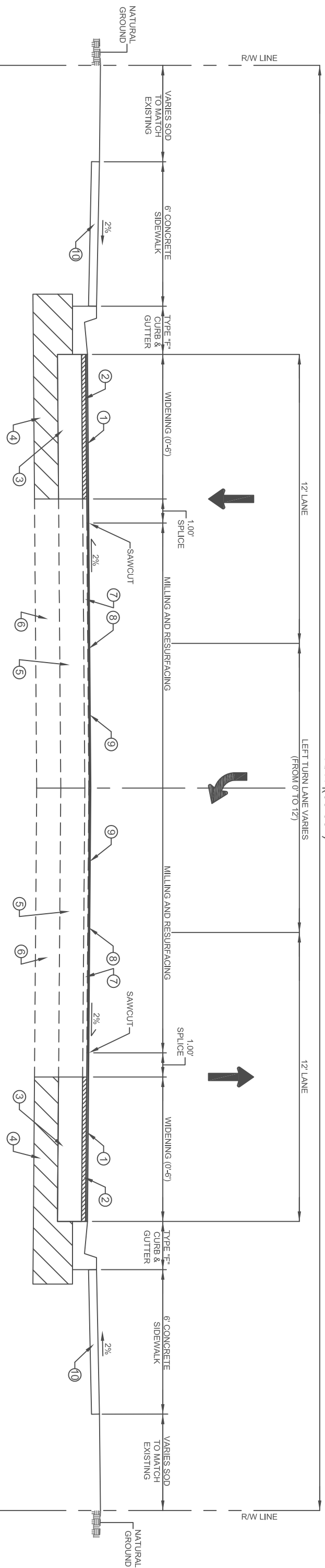
ORANGE COUNTY PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839-9205
 (407) 836-7908

DESIGN PLANS FOR:
KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS
PROJECT NAME
KALEY AVENUE
PROJECT NO.
CIP-2722

SUMMARY OF PAY ITEMS AND QUANTITIES

SHEET NO.	3
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DETAILS & TYPICAL SECTION



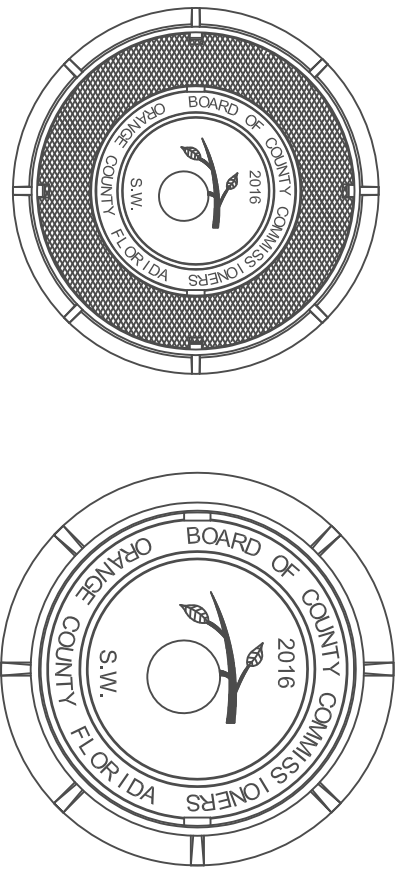
TYP. DETAIL OF WIDENING
NOT TO SCALE

MILLING AND OVERLAY DETAIL
NOT TO SCALE

TYP. DETAIL OF WIDENING
NOT TO SCALE

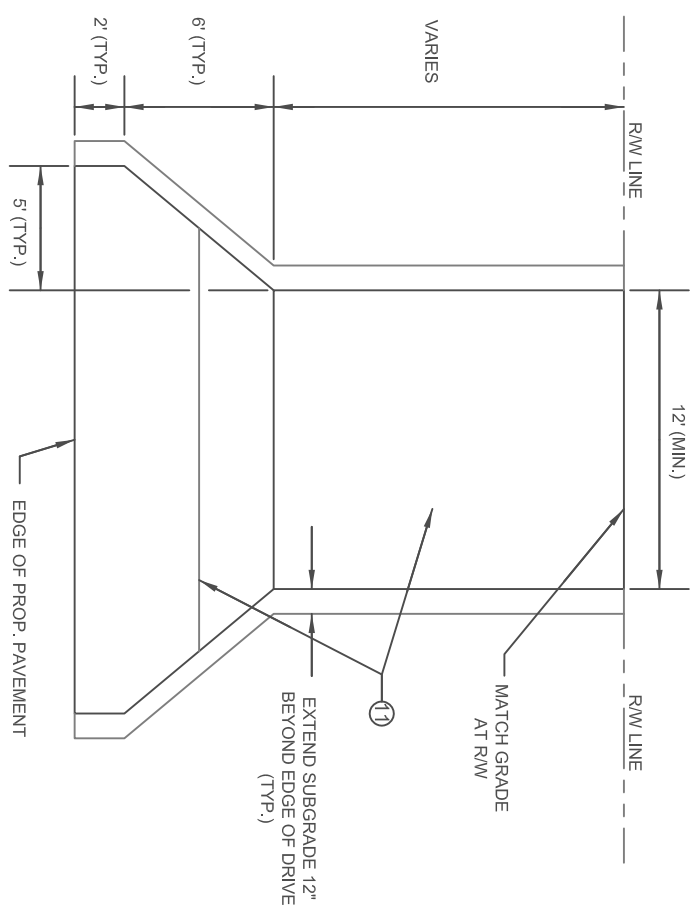
RIO GRANDE AVENUE
POSTED SPEED LIMIT = 35 MPH
KALEY AVENUE
DESIGN SPEED = 30 MPH

- ① FRICTION COURSE FC-12.5 (TRAFFIC TYPE "C")(1.5")
- ② TYPE "SP" STRUCTURAL COURSE (TRAFFIC TYPE "C")(SP 9.5)(1.5")
- ③ 12" SOIL CEMENT BASE (300 PSI)
- ④ TYPE B STABILIZATION (12")(MIN. LBR 40)
- ⑤ EXISTING BASE
- ⑥ EXISTING SUB-BASE
- ⑦ EXISTING STRUCTURAL COURSE
- ⑧ EXISTING FRICTION COURSE
- ⑨ MILL 1.5" & RESURFACE WITH FRICTION COURSE FC-12.5 (1.5")
- ⑩ CONCRETE SIDEWALK (4" THICK)
- ⑪ CONCRETE SIDEWALK (6" THICK)



STANDARD MANHOLE COVER
NOT TO SCALE

NOTE:
1. ALL MEASUREMENTS ARE IN ENGLISH UNITS UNLESS OTHERWISE SPECIFIED.



TYP. DRIVEWAY APRONS
NOT TO SCALE

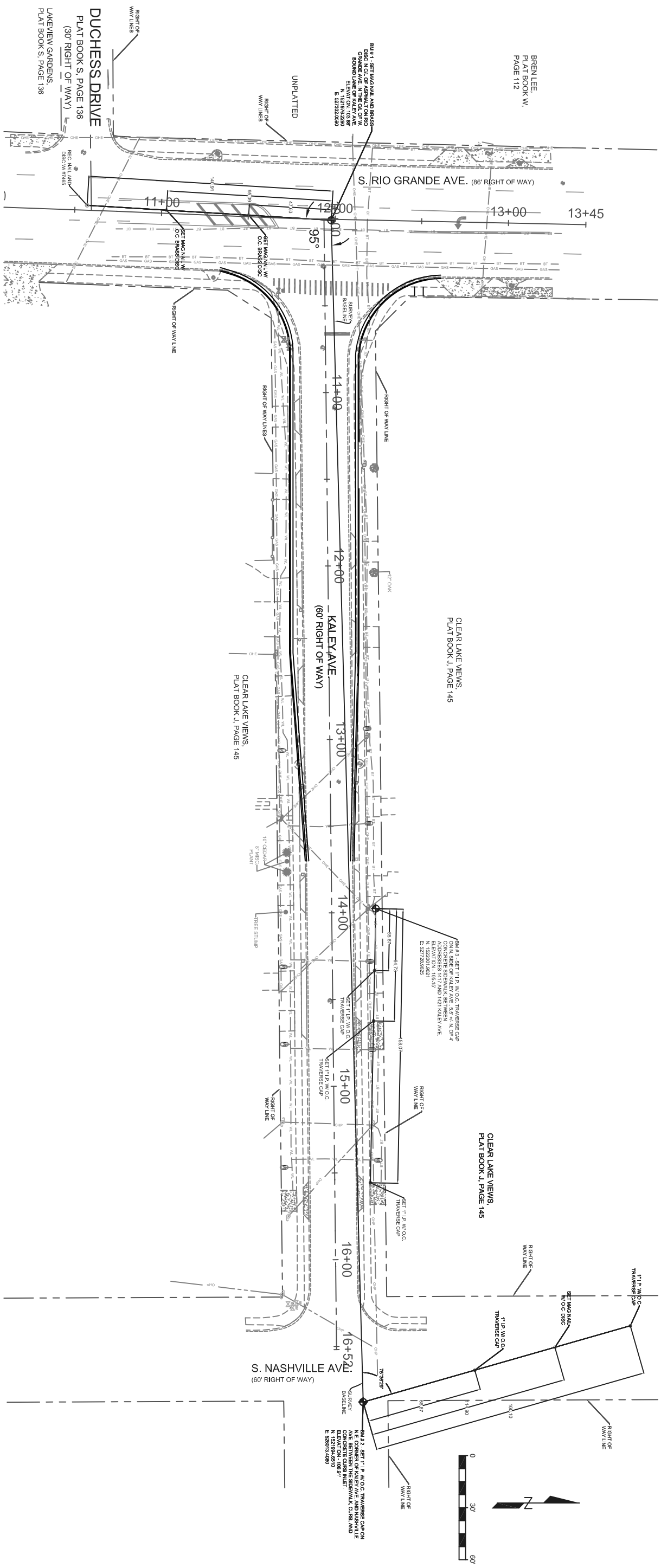
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

ORANGE COUNTY GOVERNMENT
ORANGE COUNTY PUBLIC WORKS
ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839-9205
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DESIGN PLANS FOR:
KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS
PROJECT NAME
KALEY AVENUE
PROJECT NO.
CIP-2722

DETAILS & TYPICAL SECTION

SHEET NO. 4



BREN LEE
 PLAT BOOK W,
 PAGE 112

CLEAR LAKE VIEWS
 PLAT BOOK J, PAGE 145

CLEAR LAKE VIEWS
 PLAT BOOK J, PAGE 145



DATE	BY	DESCRIPTION

REVISIONS	DATE	BY	DESCRIPTION

ORANGE COUNTY GOVERNMENT

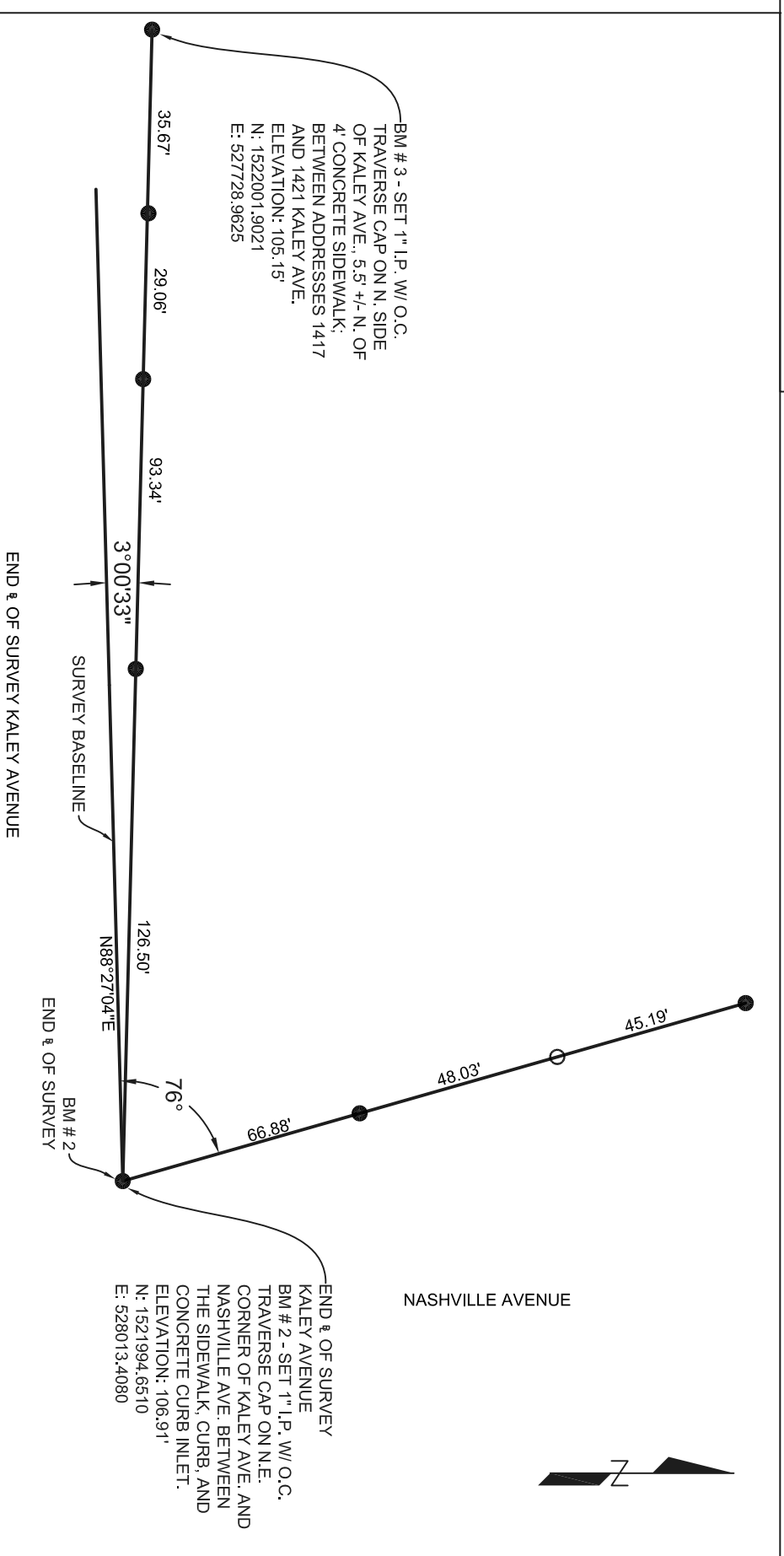
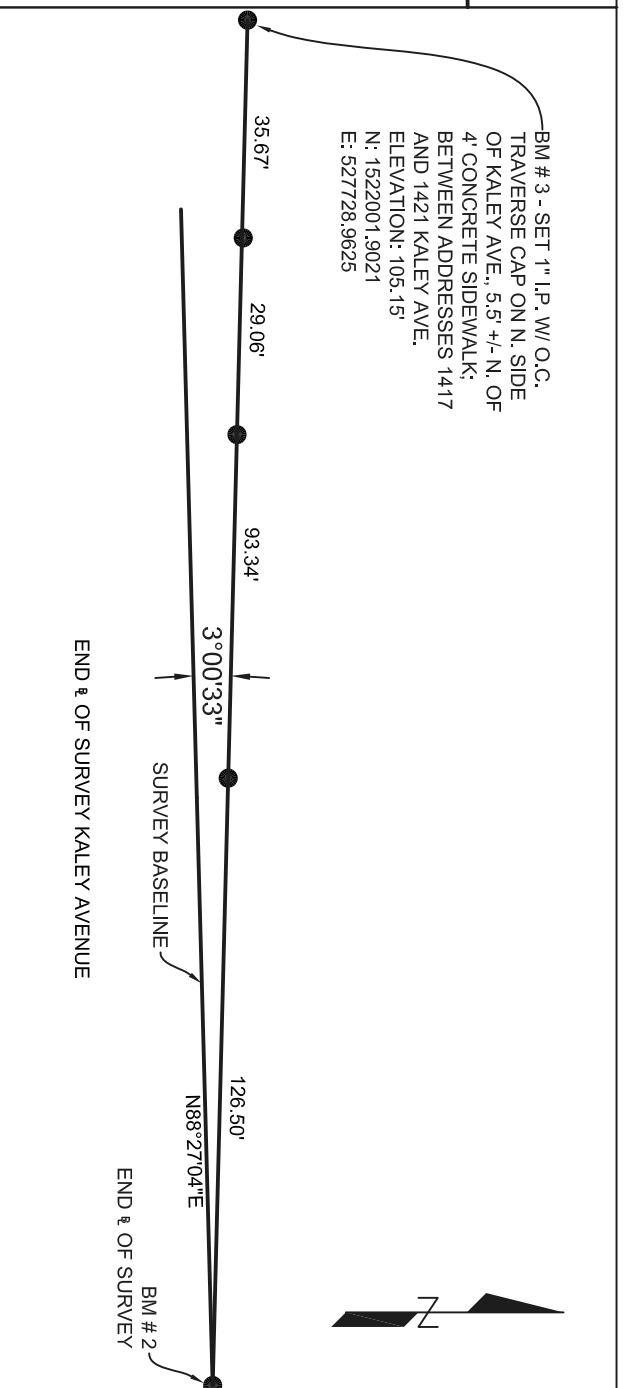
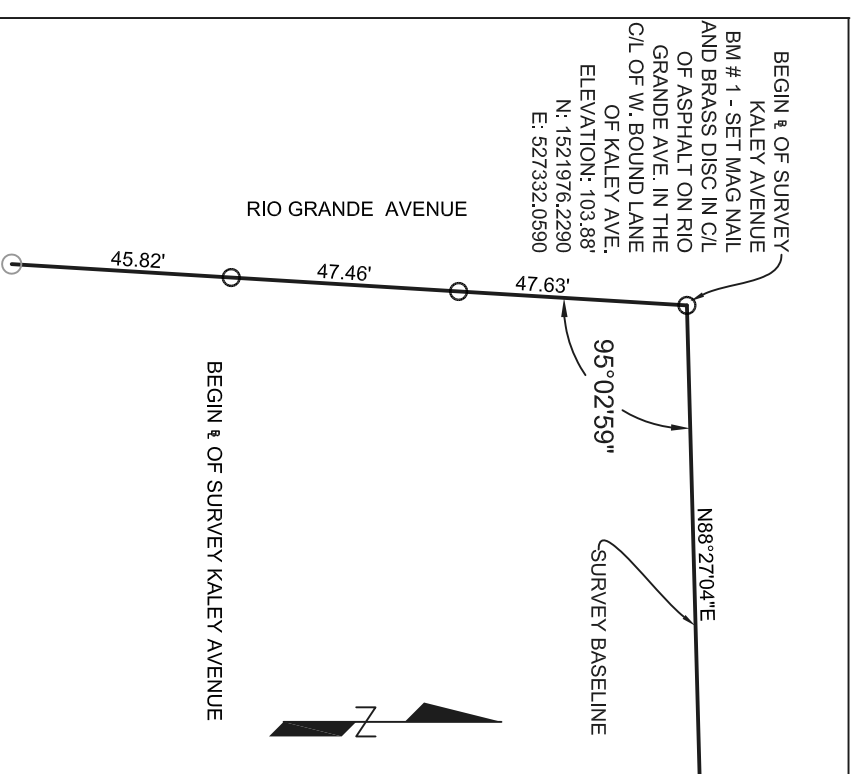
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DESIGN PLANS FOR:	
KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
KALEY AVENUE	CIP-2722

SURVEY CONTROL SHEET

SURVEY NOTES

1. NO IMPROVEMENTS ABOVE OR BELOW GROUND, OTHER THAN THOSE SHOWN, WERE LOCATED.
2. MEASUREMENT METHODS FOR THIS SURVEY MEET THE REQUIREMENTS OF CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE FOR LAND SURVEYING.
3. THE SOURCE BENCHMARK USED IS BASED ON NAVD 88 DATUM. ORANGE COUNTY BENCHMARK A-1427-002 - A RECOVERED 3.5" ALUMINUM O.C. DISC ON A CONCRETE CURB INLET, 35' +/- E. OF C/L OF RIO GRANDE AVE. AND 80' +/- N. OF C/L OF KALEY AVE. ELEVATION-103.39'.
4. UNLESS OTHERWISE NOTED, ALL RIGHTS OF WAY HEREON ARE CONVEYED BY PLAT BOOK J, PAGE 145.
5. FOR SURVEY CONTROL SHEETS, SEE SHEETS 3-5 OF THIS DRAWING FOR THIS PROJECT.
6. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE IN NAVD 88 DATUM.
7. ALL RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. NO TITLE WORK WAS PERFORMED FOR THIS SURVEY.
8. BEARINGS HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (0901), AND RELATIVE TO THE FOLLOWING PUBLISHED HORIZONTAL CONTROL POINTS:
 - CCR# 97617
RECOVERED NAIL & DISC (LB 7465)
N: 1523298.790 E: 527317.780
 - CCR# 97618
RECOVERED R.R. SPIKE
N: 1525980.810 E: 524689.150



REVISIONS			
DATE	BY	DESCRIPTION	DATE

ORANGE COUNTY GOVERNMENT

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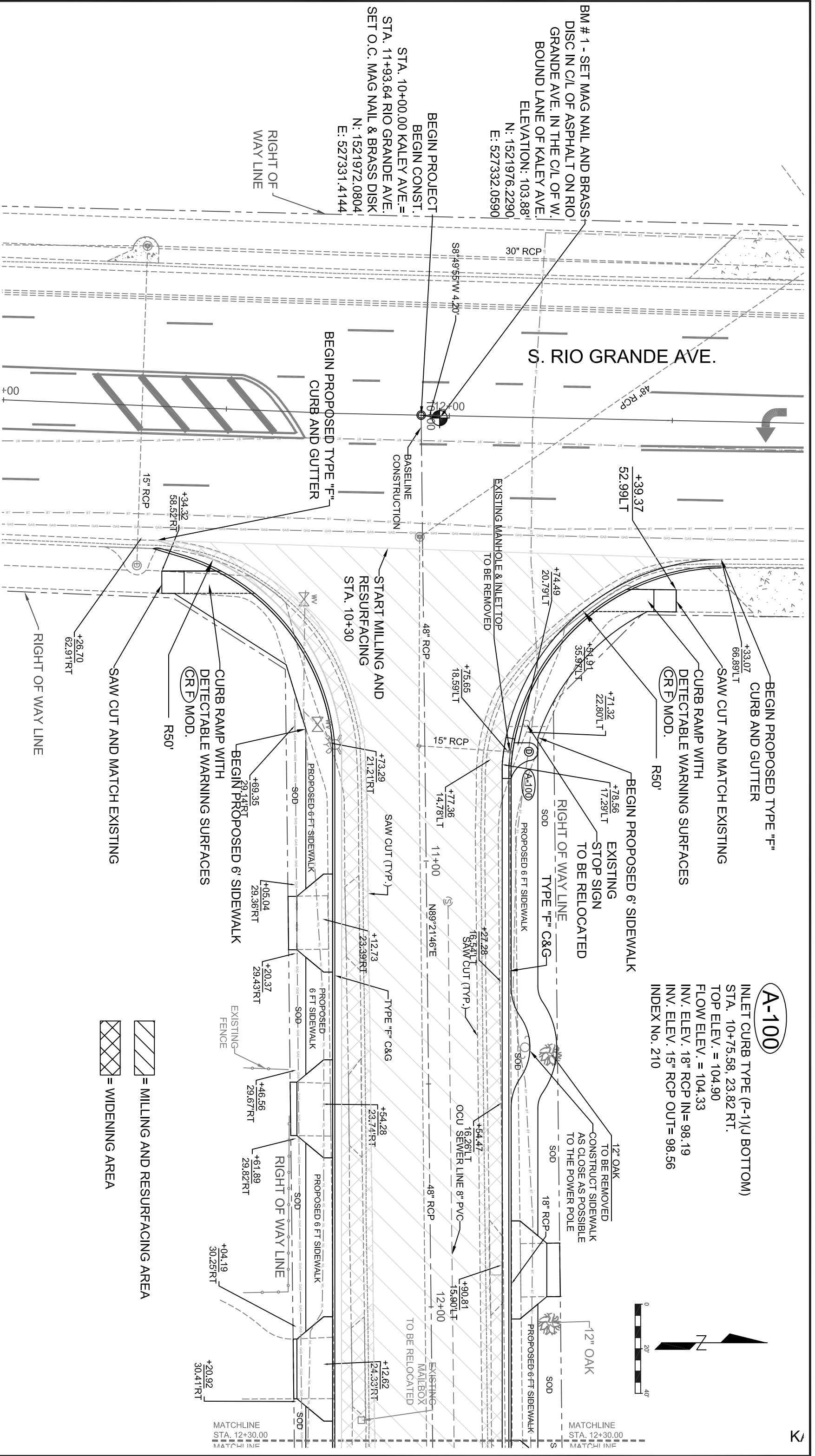
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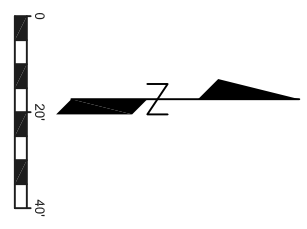
DESIGN PLANS FOR:	
KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS	PROJECT NO.
KALEY AVENUE	CIP-2722

SURVEY CONTROL SHEET

SHEET NO. 6



A-100
 INLET CURB TYPE (P-1)(J) BOTTOM)
 STA. 10+75.58; 23.82 RT.
 TOP ELEV. = 104.90
 FLOW ELEV. = 104.33
 INV. ELEV. 18" RCP IN= 98.19
 INV. ELEV. 15" RCP OUT= 98.56
 INDEX No. 210



- = MILLING AND RESURFACING AREA
- = WIDENING AREA

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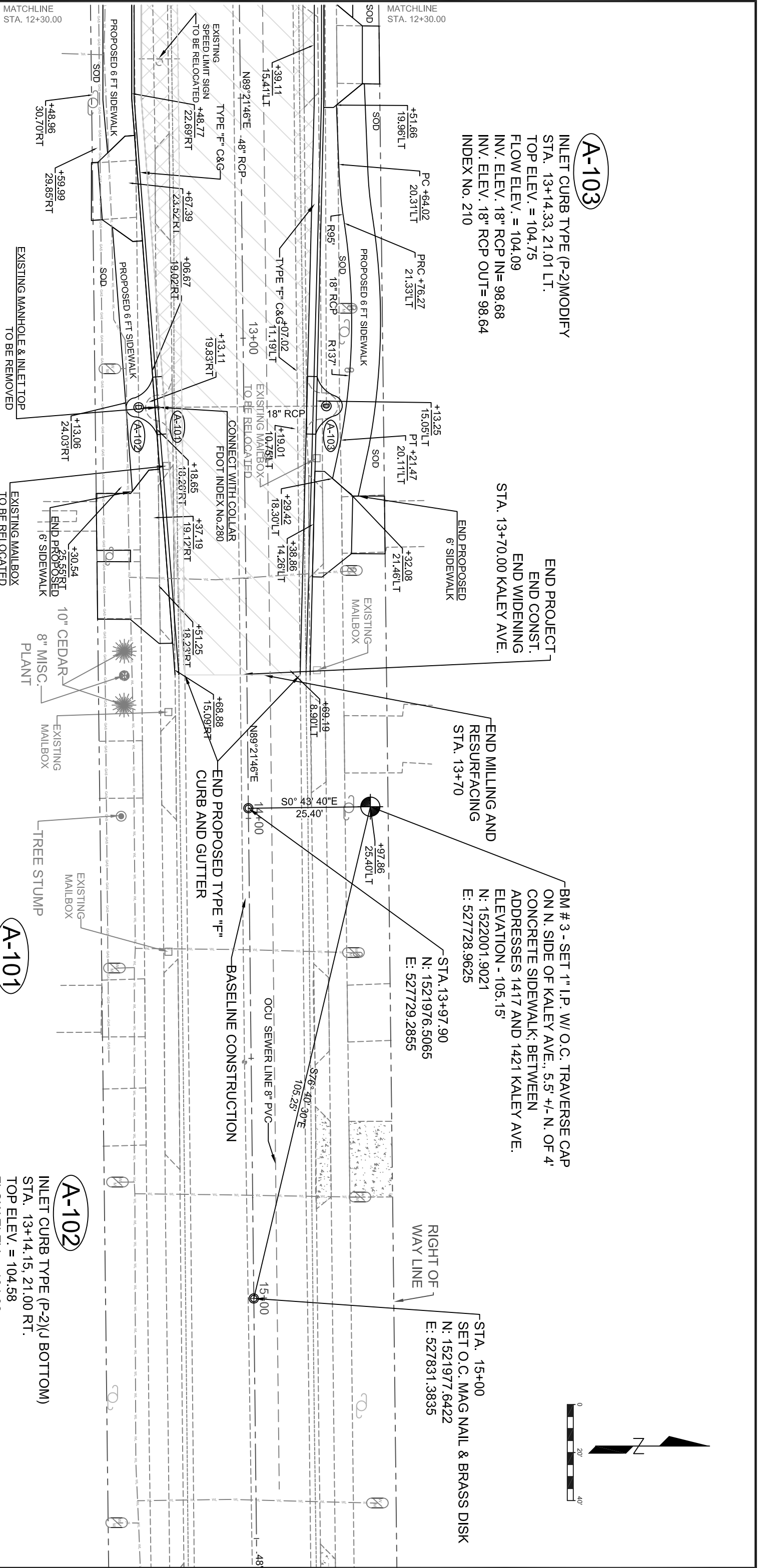
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DESIGN PLANS FOR:	
KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS	PROJECT NO. CIP-2722

PLAN SHEET

SHEET NO. 7	
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A-103

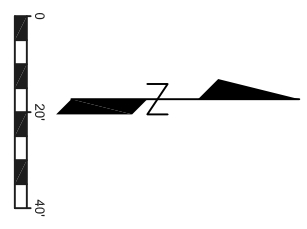
INLET CURB TYPE (P-2) MODIFY
 STA. 13+14.33, 21.01 LT.
 TOP ELEV. = 104.75
 FLOW ELEV. = 104.09
 INV. ELEV. 18" RCP IN= 98.68
 INV. ELEV. 18" RCP OUT= 98.64
 INDEX No. 210

END PROJECT
 END CONST.
 END WIDENING
 STA. 13+70.00 KALEY AVE.

END MILLING AND RESURFACING
 STA. 13+70

BM # 3 - SET 1" I.P. W/O.C. TRAVERSE CAP ON N. SIDE OF KALEY AVE., 5.5' +/- N. OF 4' CONCRETE SIDEWALK; BETWEEN ADDRESSES 1417 AND 1421 KALEY AVE. ELEVATION - 105.15'
 N: 1522001.9021
 E: 527728.9625

STA. 15+00
 SET O.C. MAG NAIL & BRASS DISK
 N: 1521977.6422
 E: 527831.3835



MATCHLINE
 STA. 12+30.00

MATCHLINE
 STA. 12+30.00

- = MILLING AND RESURFACING AREA
- = WIDENING AREA

A-101
 18" RCP, 5 LF
 STA. START 13+14.20, 17.03 RT.
 INV. ELEV. 18" RCP START= 98.95
 STA. END 13+14.16, 20.00 RT.
 INV. ELEV. 18" RCP END= 98.96
 INDEX No. 205
 CONNECTS TO EXISTING 18" RCP WITH COLLAR
 INDEX No. 280

A-102
 INLET CURB TYPE (P-2)(J) BOTTOM)
 STA. 13+14.15, 21.00 RT.
 TOP ELEV. = 104.58
 FLOW ELEV. = 104.02
 INV. ELEV. 18" RCP OUT= 98.96
 INDEX No. 210

DATE	BY	DESCRIPTION

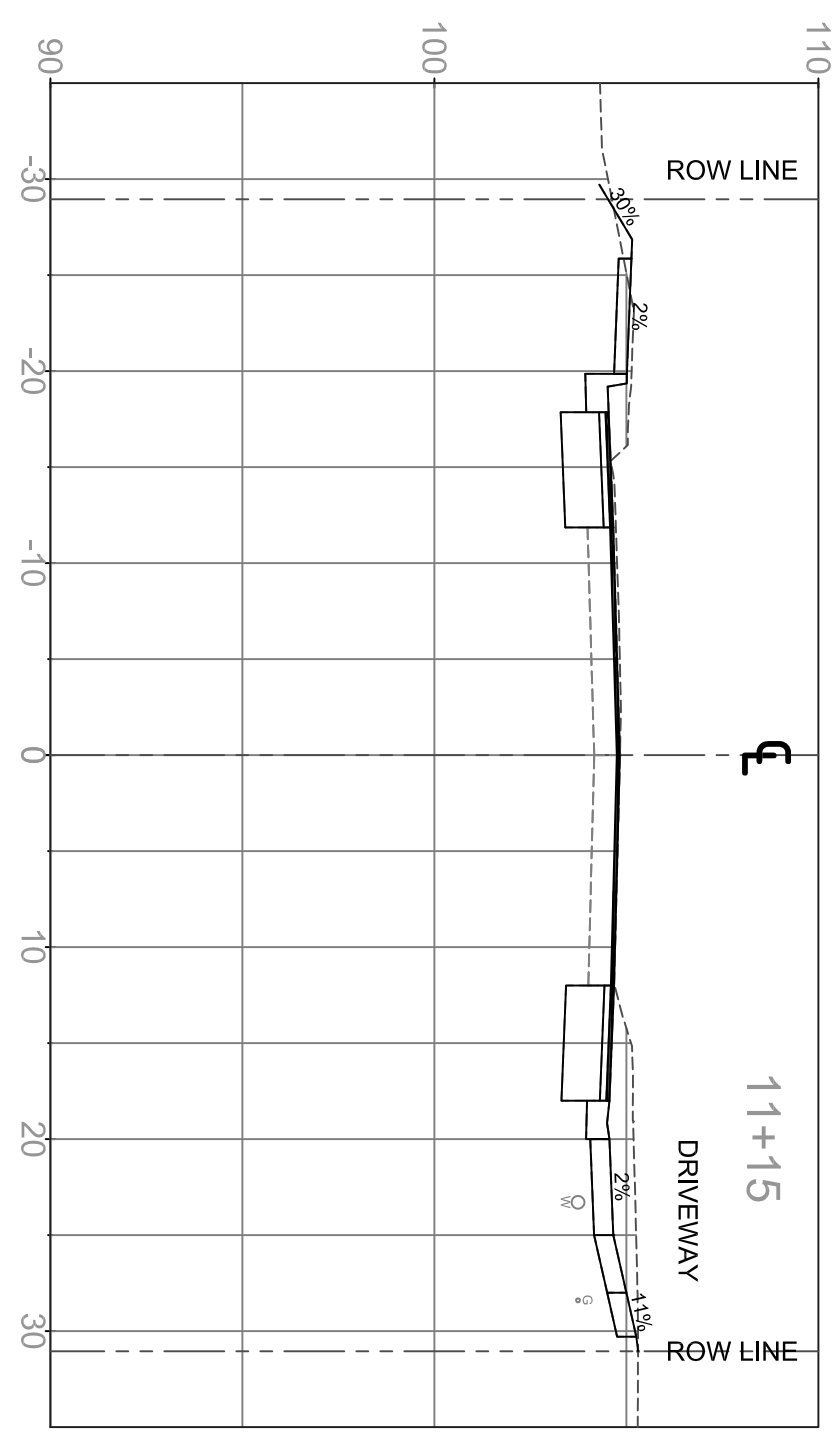
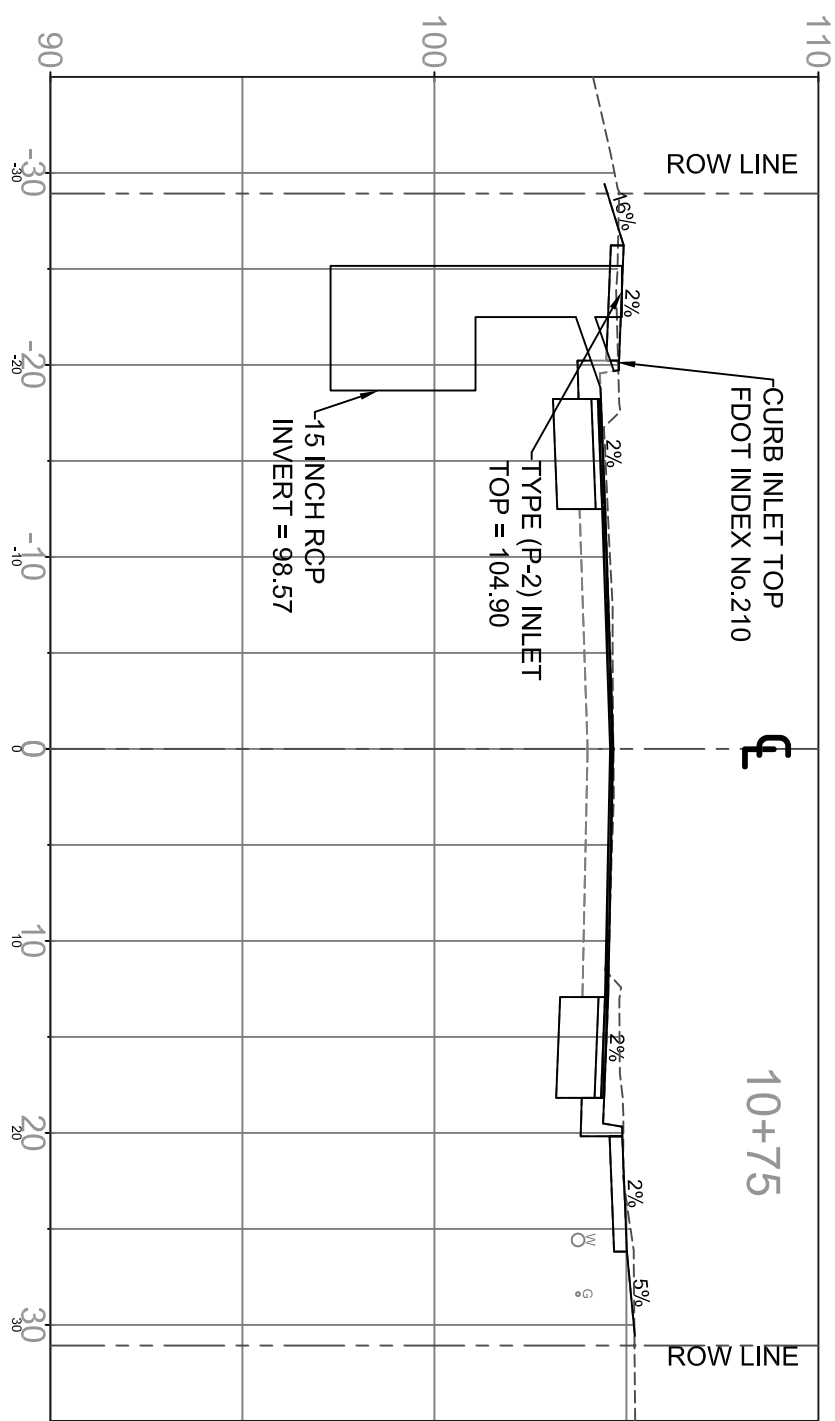
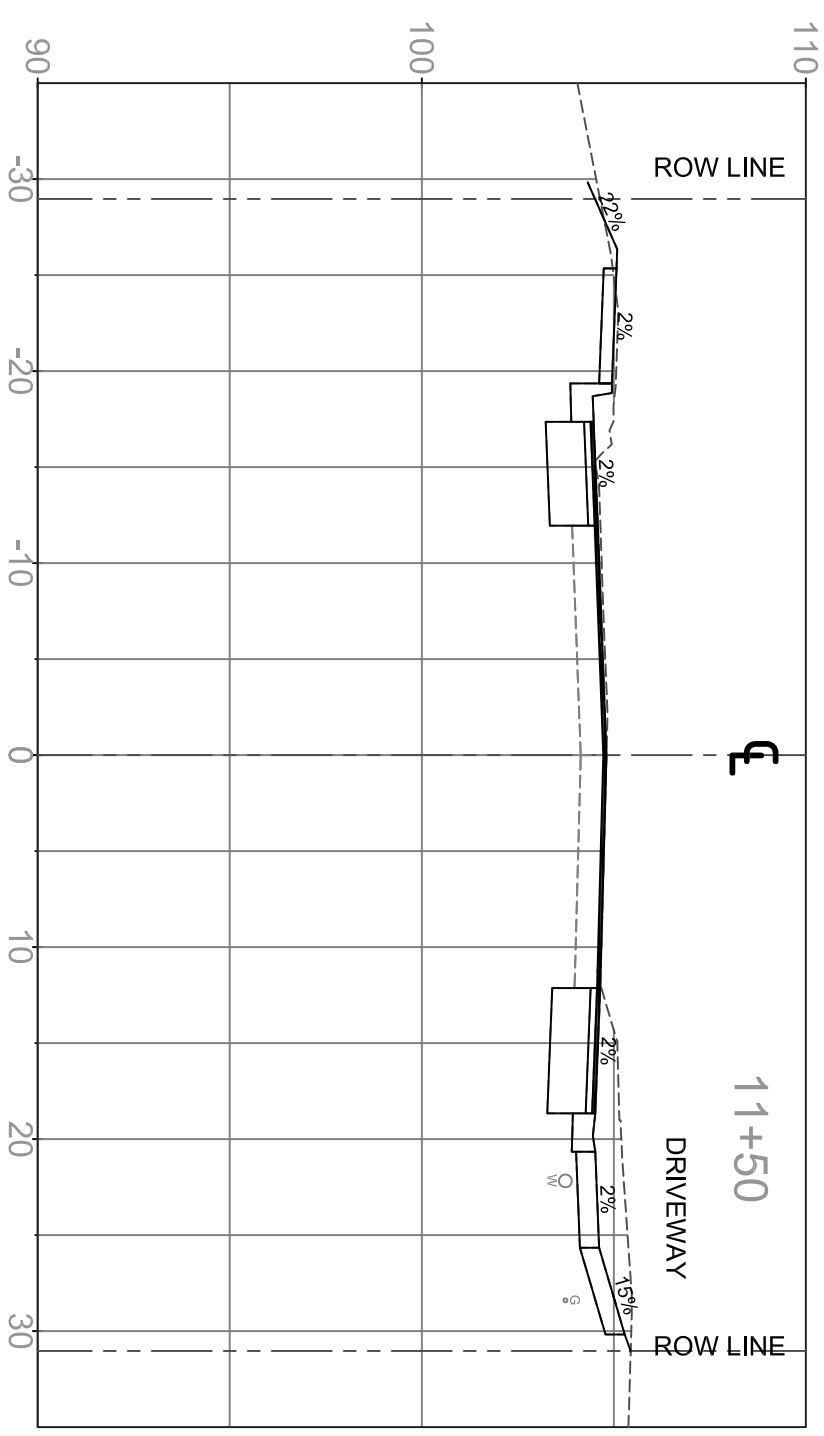
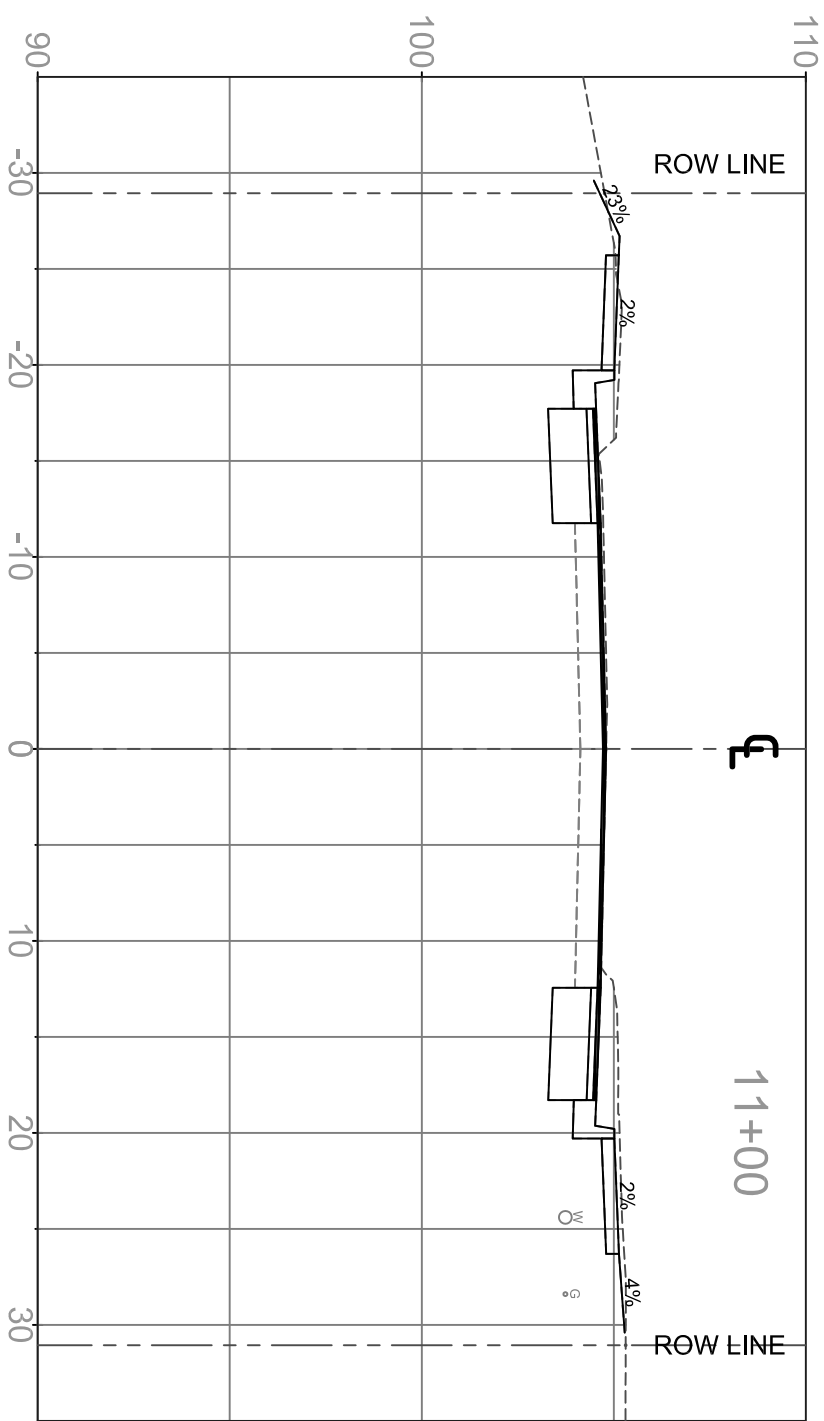
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PROJECT NAME	PROJECT NO.
KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS	CIP-2722

PLAN SHEET



SCALE:
 1"=10' HOR.
 1"=5' VER.

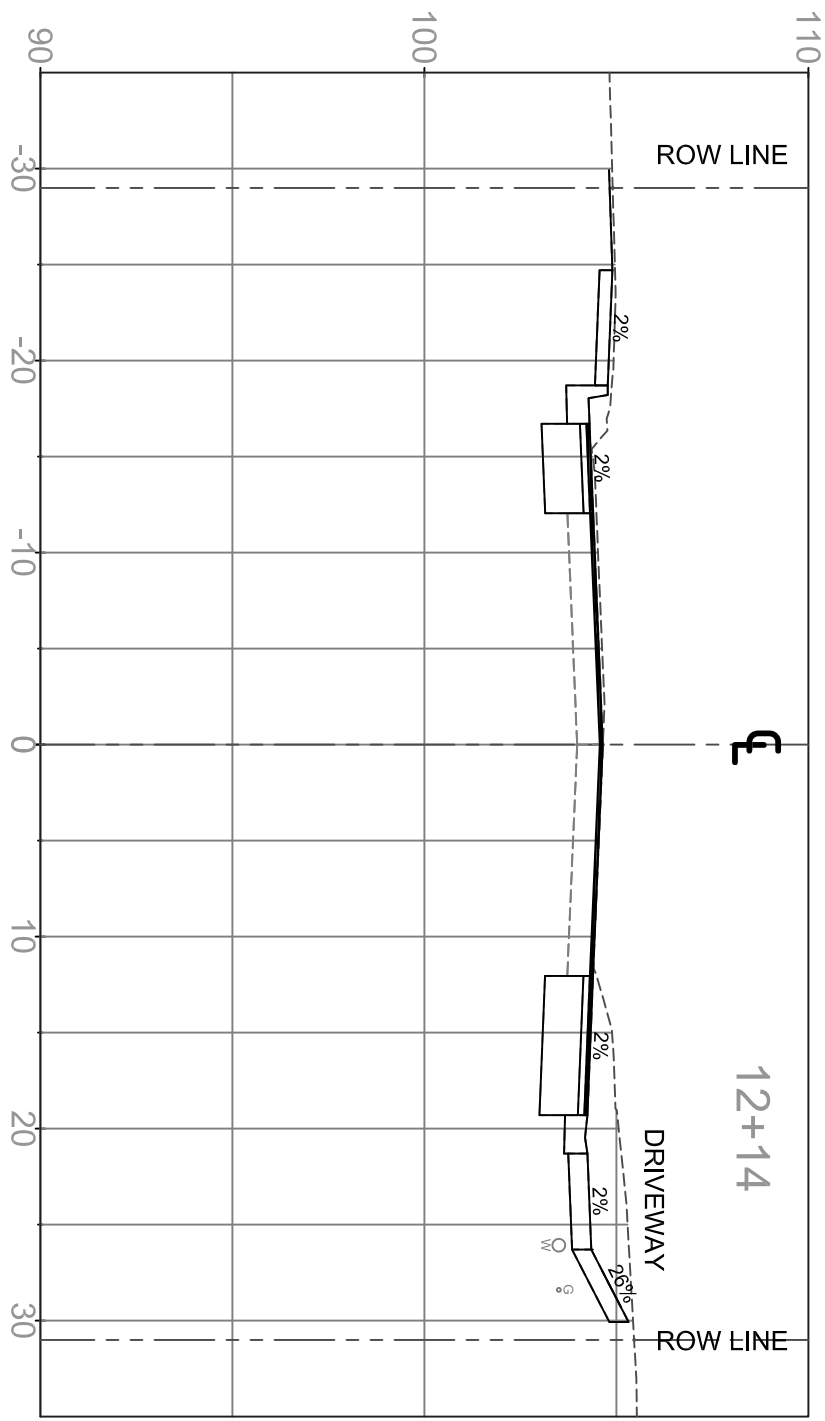
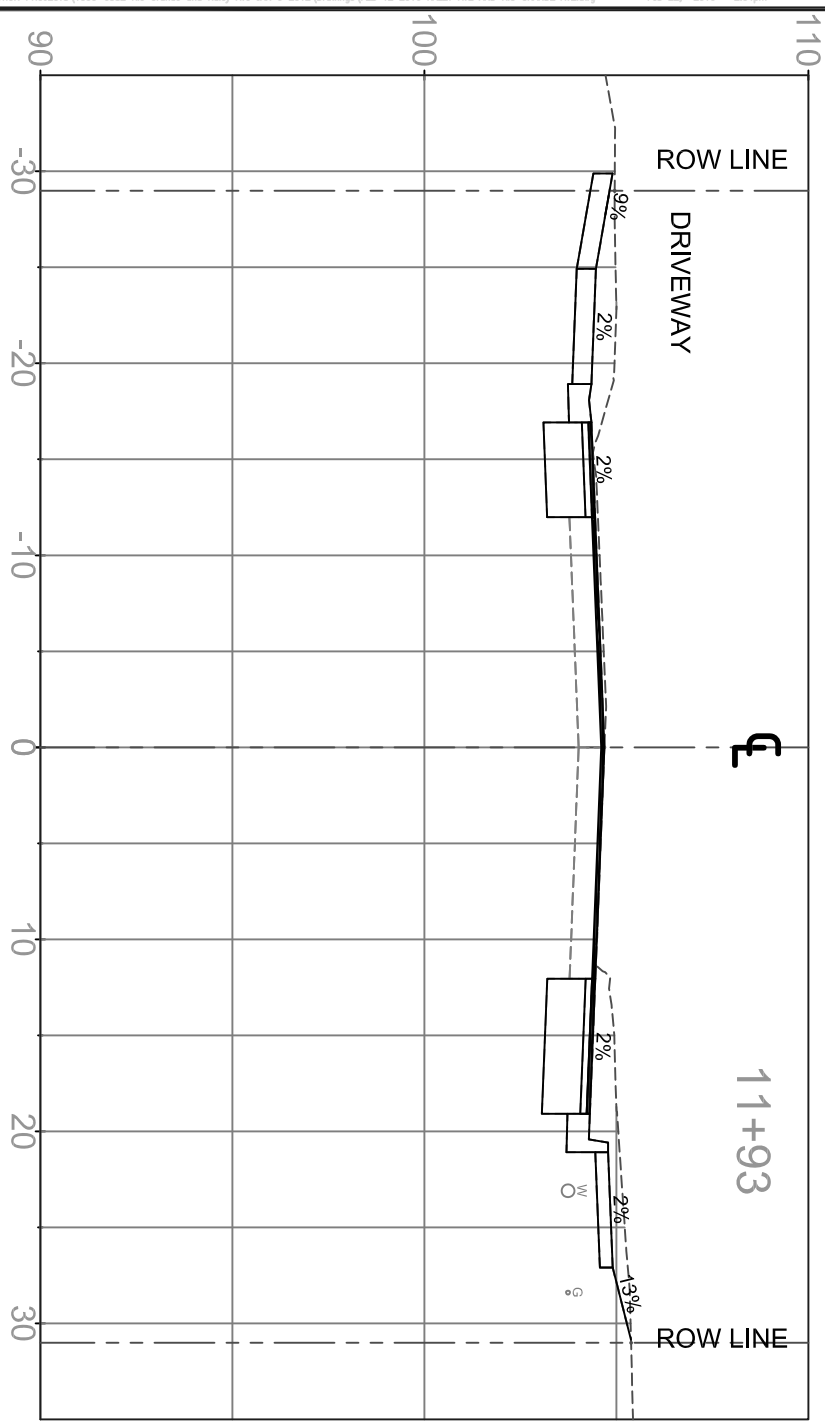
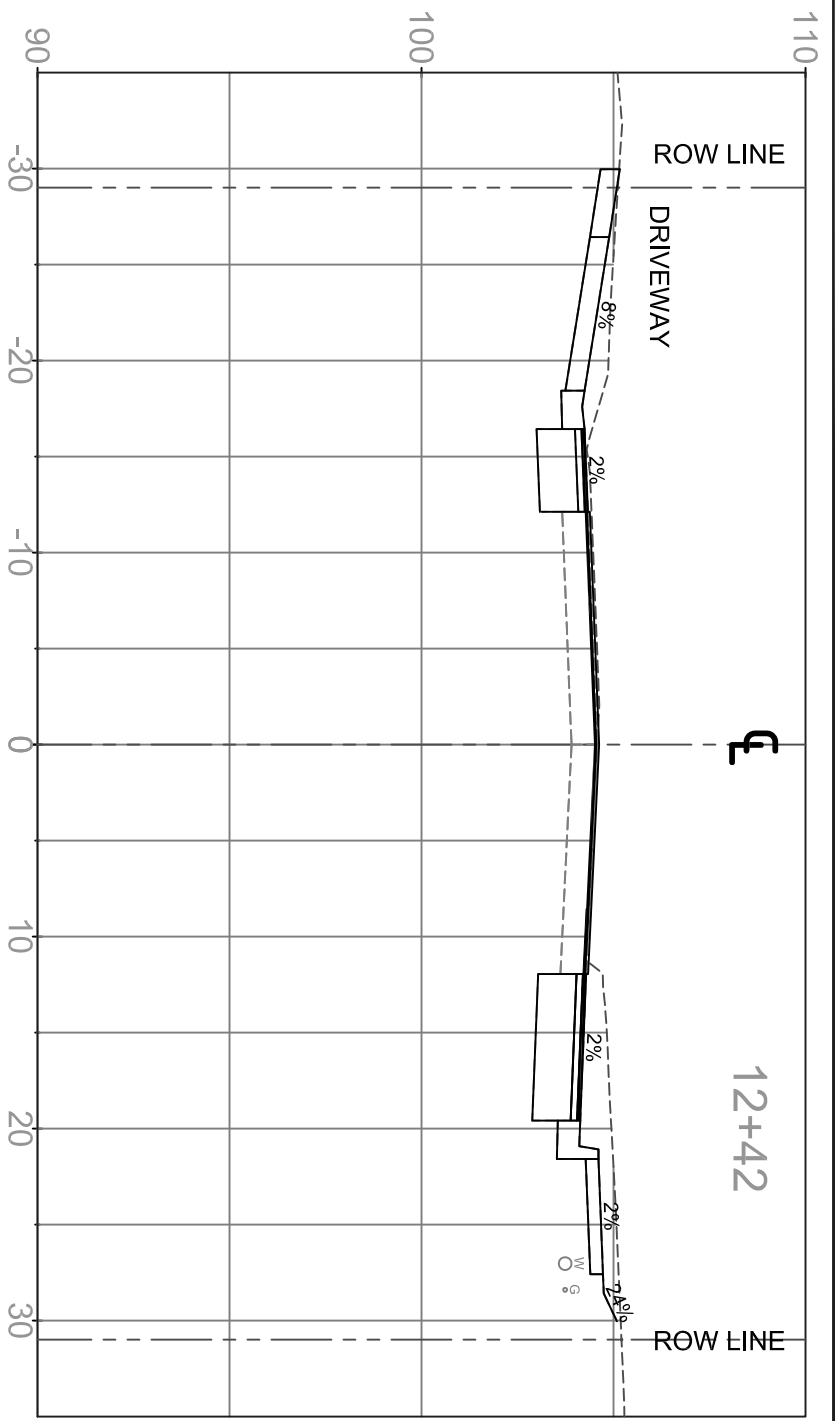
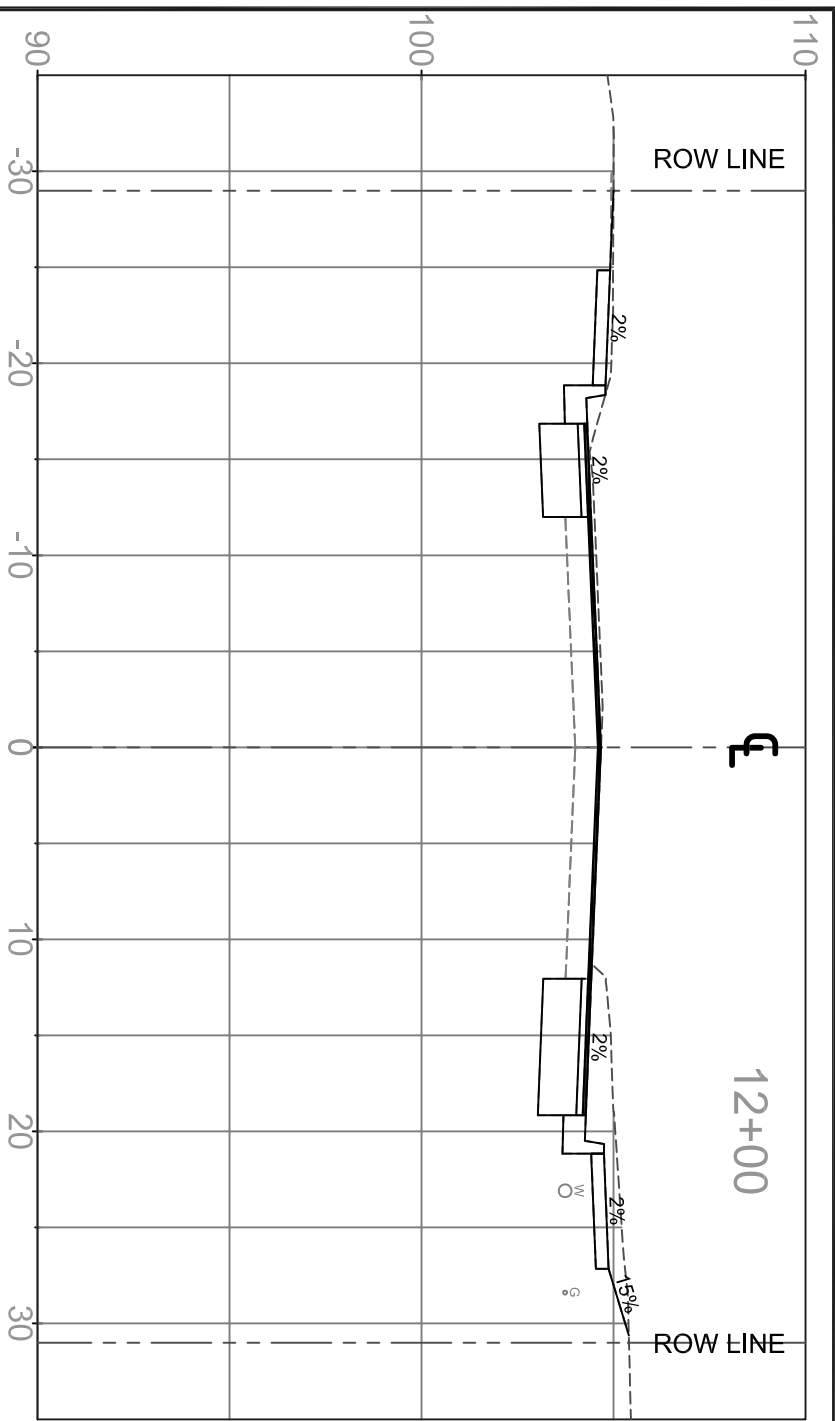
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DATE	BY	DESCRIPTION	

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PROJECT NAME	PROJECT NO.
KALEY AVENUE	CIP-2722

CROSS SECTIONS

SHEET NO.	9
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SCALE:
 1"=10' HOR.
 1"=5' VER.

REVISIONS			
DATE	BY	DESCRIPTION	

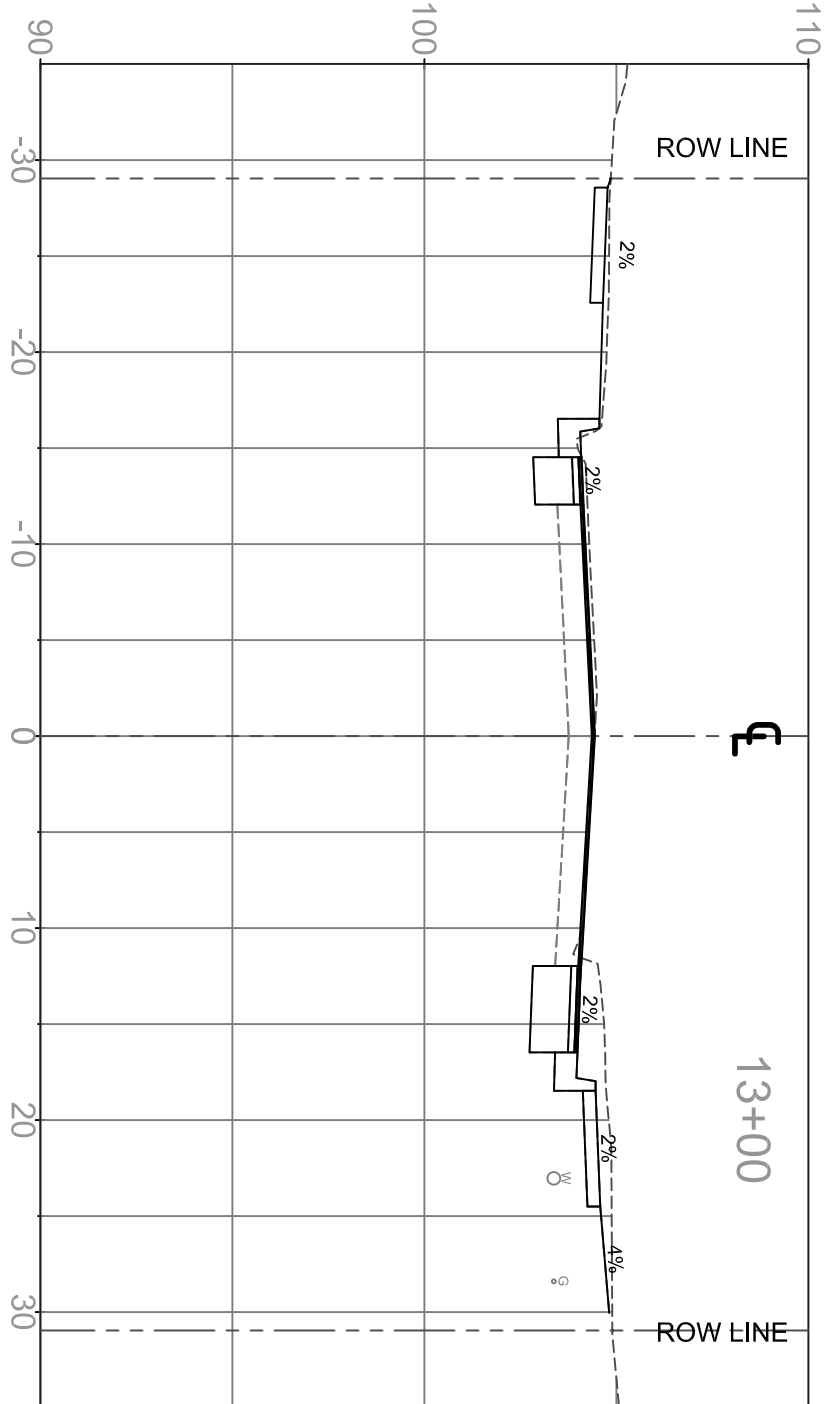
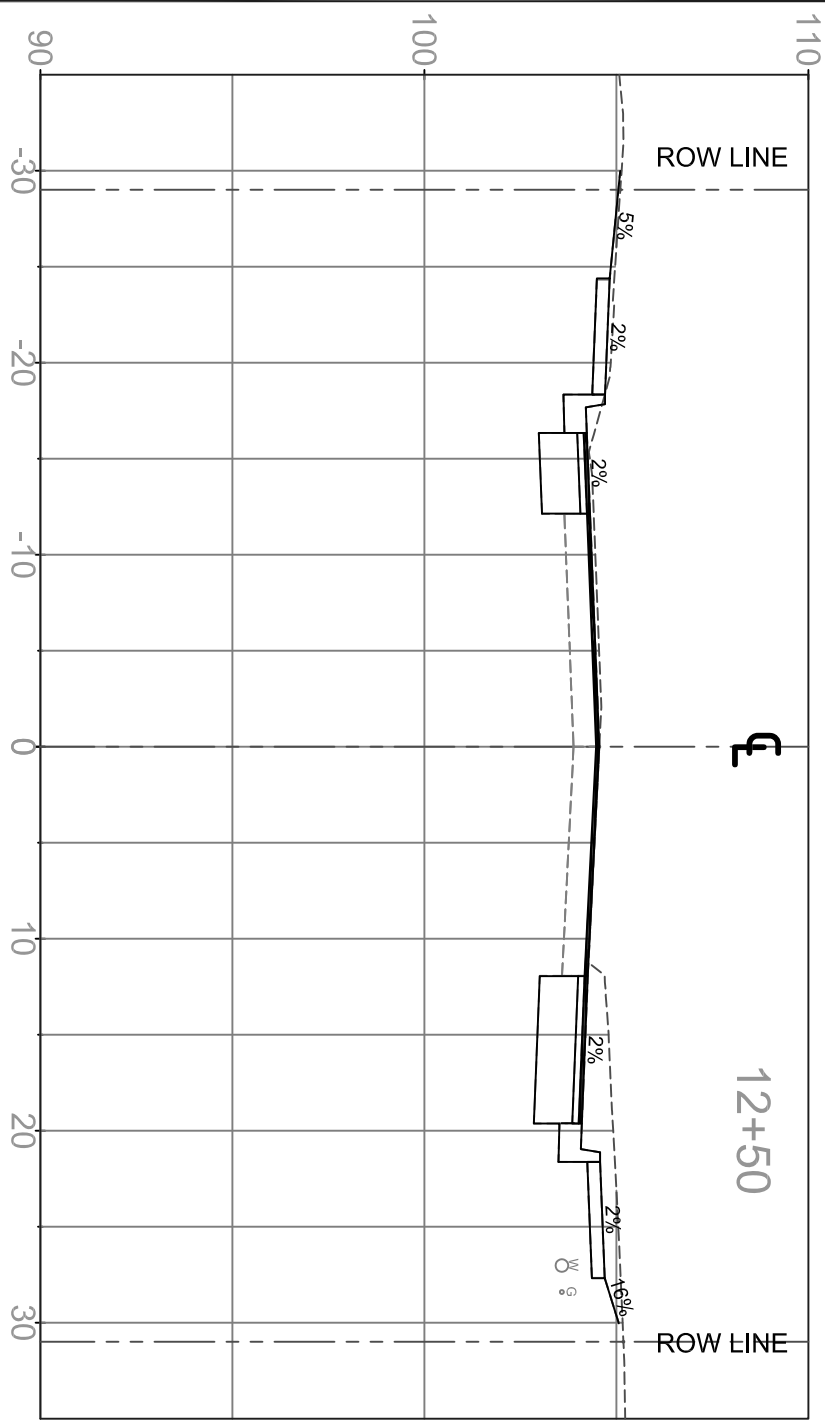
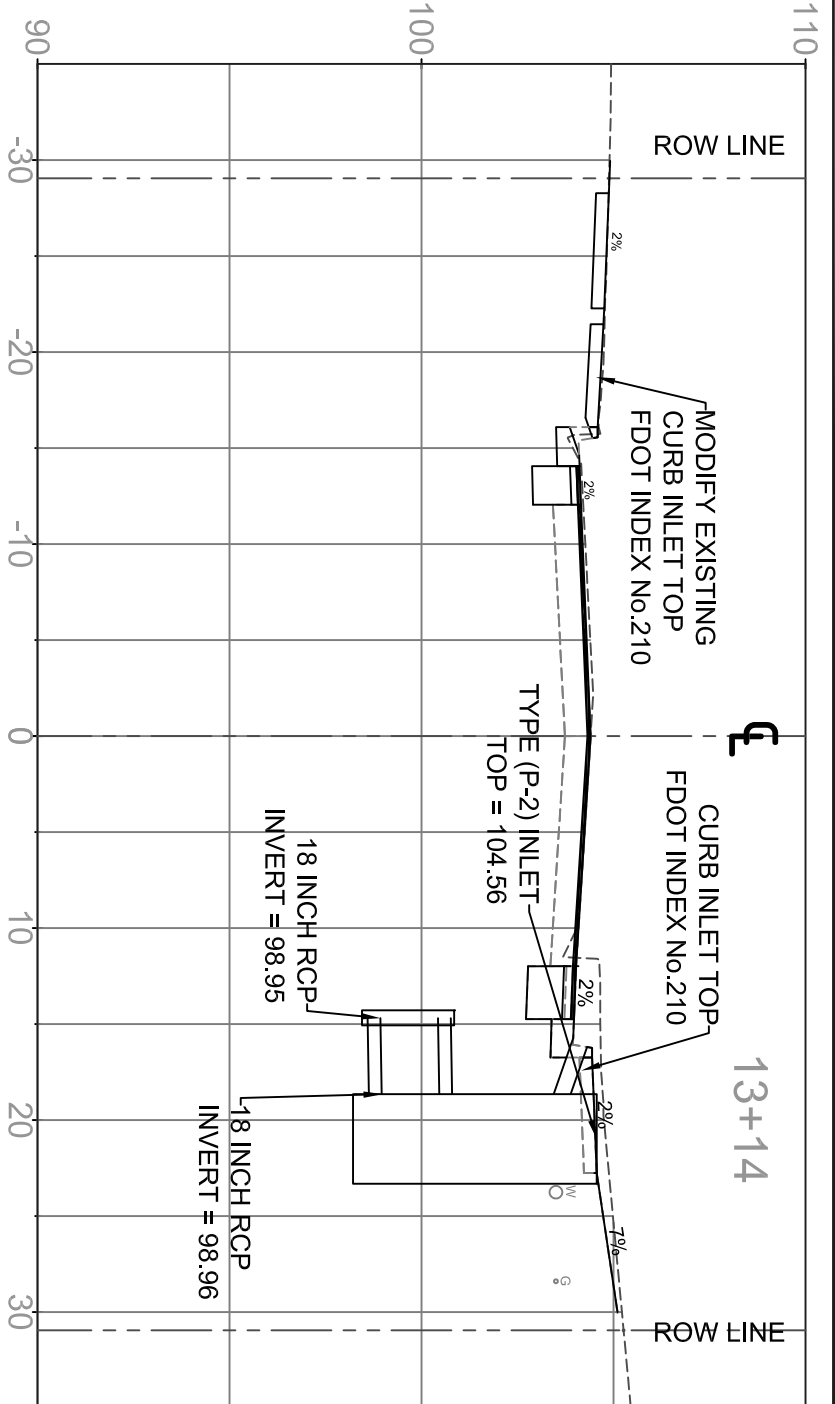
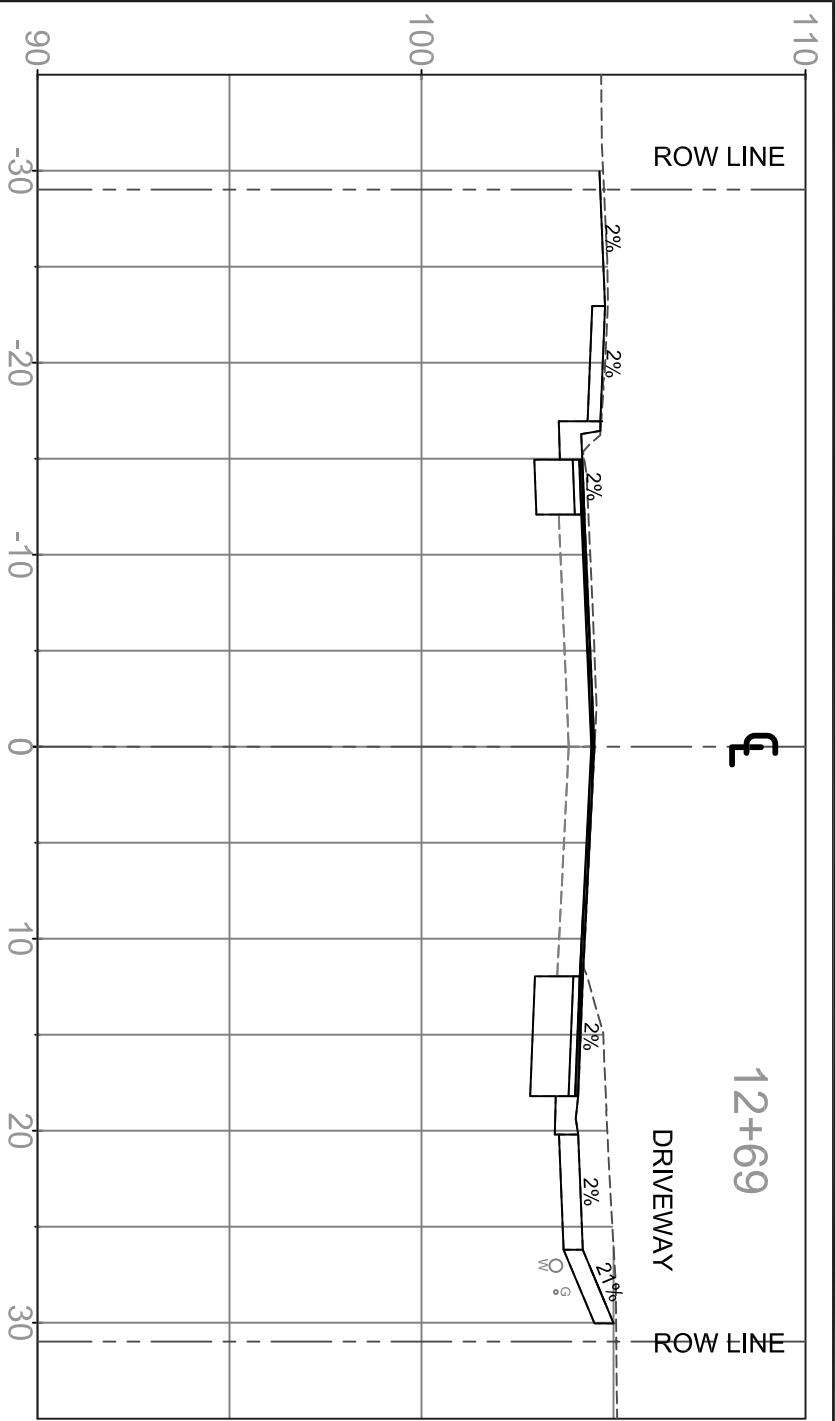
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DESIGN PLANS FOR:	
PROJECT NAME	KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS
PROJECT NO.	CIP-2722

CROSS SECTIONS

SHEET NO.	10
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SCALE:
 1"=10' HOR.
 1"=5' VER.

REVISIONS			
DATE	BY	DESCRIPTION	

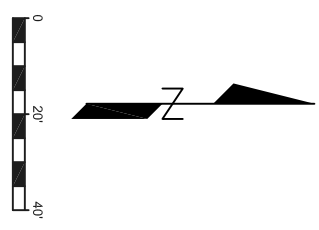
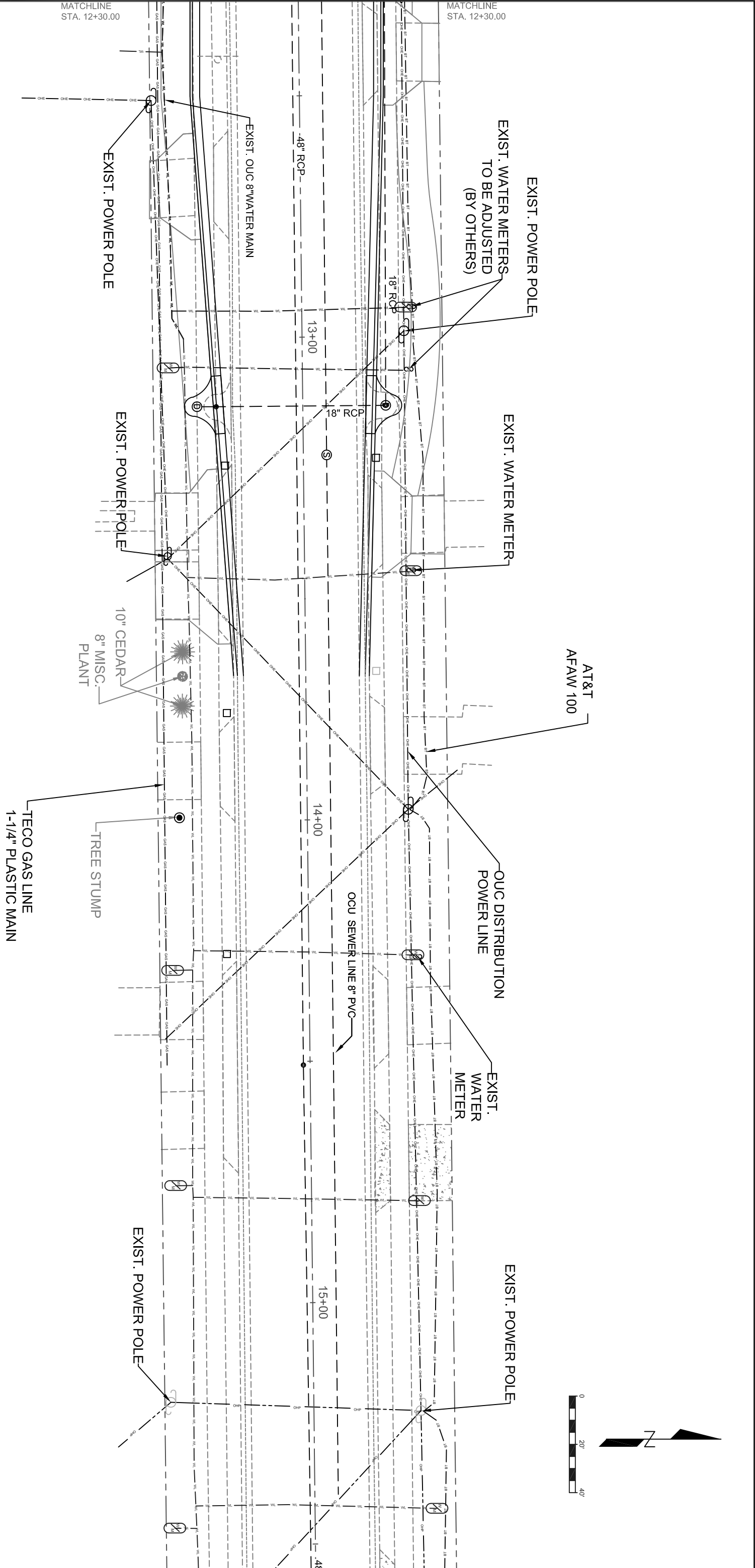
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DESIGN PLANS FOR:	
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PROJECT NAME	PROJECT NO.
KALEY AVENUE	CIP-2722

CROSS SECTIONS

SHEET NO. 11



DATE	BY	DESCRIPTION

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DESIGN PLANS FOR:	
KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS	PROJECT NO. CIP-2722
PROJECT NAME	PROJECT NO.
KALEY AVENUE	CIP-2722

UTILITIES	
SHEET NO.	13

SIGNING, PAVEMENT MARKINGS AND GENERAL NOTES

SIGNING AND PAVEMENT MARKING NOTES

1. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS. IF SIGNS ARE DAMAGED BY THE CONTRACTOR, THE SIGN SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
3. SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS WHICH ARE IN CONFLICT WITH STREET LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS AND ETC. SHALL BE ADJUSTED SLIGHTLY AS DIRECTED BY ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY ENGINEER.

REVISIONS			
DATE	BY	DESCRIPTION	

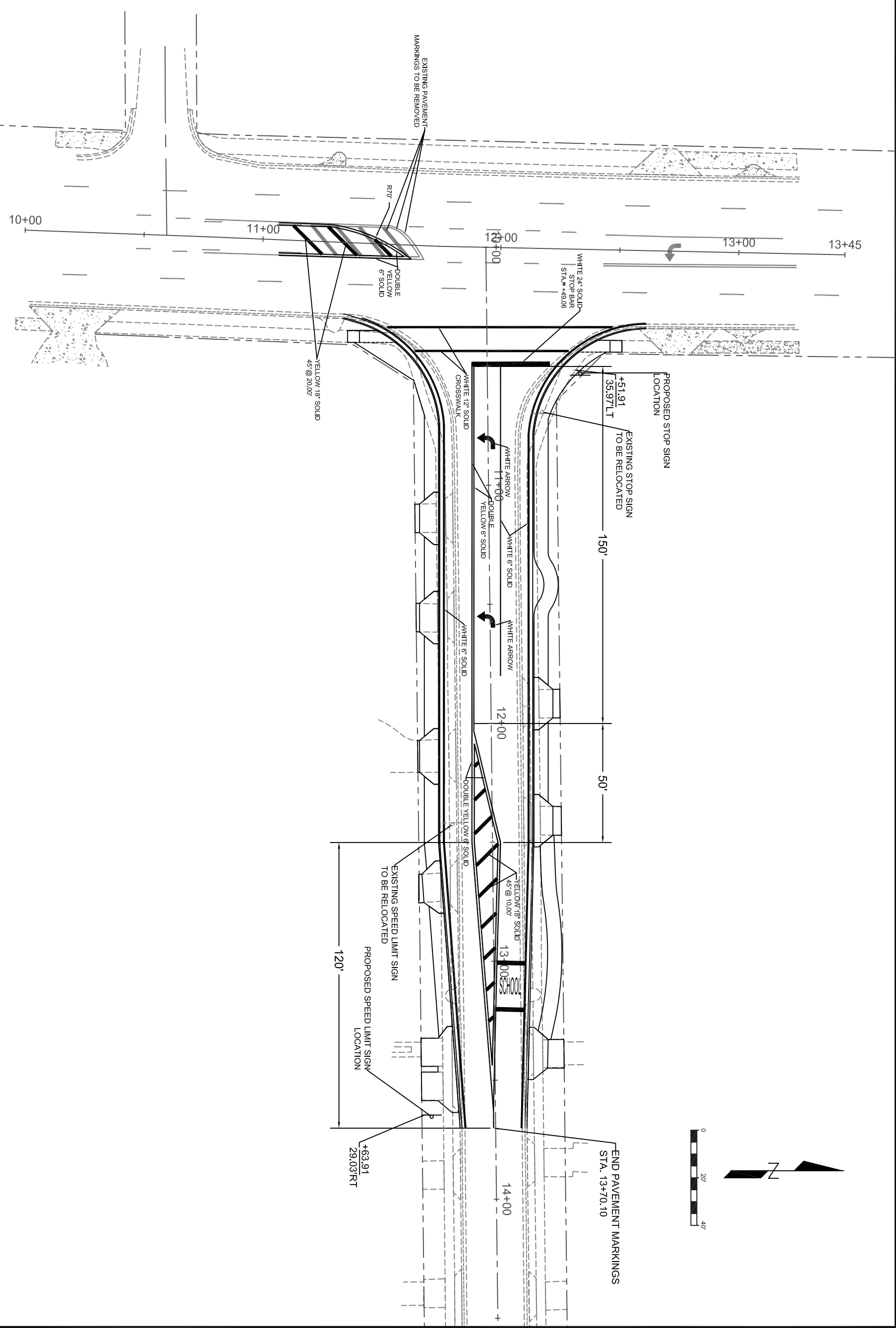
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DESIGN PLANS FOR:	
KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS	PROJECT NO.
KALEY AVENUE	CIP-2722

SIGNING, PAVEMENT MARKINGS & GENERAL NOTES

SHEET NO. 14

REVISIONS			
DATE	BY	DESCRIPTION	



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DESIGN PLANS FOR:

KALEY AVENUE AND RIO GRANDE AVENUE INTERSECTION IMPROVEMENTS
PROJECT NAME
KALEY AVENUE
PROJECT NO.
CIP-2722

SIGNING, PAVEMENT MARKINGS

SHEET NO. 15